

Revision Number: Purchasing Agent: DEBBIE GUNDERSEN

Item: GATEWAY DEVICES FOR RADIOS, TELEPHONES OR SATCOM ETC.

(WSCA)

Vendor: 94951A Raytheon/JPS

5800 Departure Drive Raleigh, NC 27616

Internet Homepage: <u>www.jps.com</u>

Telephone: (919) 790-1011 Ext. 1140

Fax number: (919) 790-1456

Contact: Marcia Gatlin

Email address: marcia.gatlin@jps.com

Brand/trade name: Kenwood

Price: See Attached
Terms: Net 30

Effective dates: 04/28/04 through 10/29/06

Days required for delivery: 30 Days ARO

Price guarantee period: Discounts good through term of contract

Minimum order: None

Min shipment without charges: FOB Destination

Other conditions:

Renewal Options: Potential contract extensions through 10/29/13

## NOTE: THIS IS A NEW CONTRACT

This Statewide contract is an "AR" (Authorization Required) contract. Authorization is required before purchase can be made. The Authorization is obtained from Floyd Ritter at 801-538-3316 in ITS. Order may be placed only after authorization is received. This contract covers only those items listed in the price schedule. It is the responsibility of the agency to ensure that other items purchased are invoiced separately. State agencies will place orders directly with the vendor (creating a PG in Finet) and make payments for the same on a PV referencing the original PG. Agencies will return to the vendor any invoice which reflects incorrect pricing.



AUTHORIZATION REQUIRED: DAS/ITS/RADIO SHOP (DEPARTMENT OF ADMINISTRATIVE SERVICES) ADMINISTERS PURCHASES FROM THIS CONTRACT. STATE AGENCIES (EXECUTIVE BRANCH) MUST COORDINATE THEIR PURCHASE THROUGH DAS/ITS (APPLIES TO EQUIPMENT ONLY, NOT ACCESSORIES). STATE AGENCIES MAY CONTACT DAVID LEE AT 801-537-9251 OR FLOYD RITTER AT 801-538-3316 TO COORDINATE THEIR PURCHASE.

Item	Description	Qty.	Unit	Percentage off Mfg List Price
1	Base Station	1-4 5-10 11+	EA EA EA	27% 27% 27%
2	Repeater	1-4 5-10 11+	EA EA EA	27% 27% 27%
3	Portable Radio	1-49 50+	EA EA	27% 27%
4	Mobile Radio	1-20 21-100 101+	EA EA EA	27% 27% 27%
5	Desktop	1-20 21-100 101+	EA EA EA	27% 27% 27%
6	Console Unit	1-9 10+	EA EA	
7	Support Services	1	HR	\$65.00
8	Installation Services	1	HR	\$65.00
9.	Repair Services	1	HR	\$90.00
10.	Accessories		EA	27%
11.	List other Equipment		EA	



Item	Description Portable Analog	Mfg Name	Brand/Model#	Total Price
12.	High VHF 136-174 Quality Category D	Kenwood	TK-280K/K2	\$498.50
13.	UHF 450-470 Quality Category C	Kenwood	TK-380K	\$498.50

# Specifications for ACU1000

## **Description**

# RDI-1/DSP-1/AP-1 RX Audio Input

**Input Impedance:** Balanced or unbalanced 600 ohms or 10k ohms.

**Input level:** -30 dBm to + 10 dBm, adjustable.

Frequency Responses: 100 Hz to 3200 kHz + 2dB

## RDI-1/DSP-1 TX Audio Output RDI-1/DSP-1/AP-1 TX Audio Output

Output Impedance: Balanced or unbalanced 600 ohms.

Output Level: -20 to +11 dBm, adjustable. Frequency Response: 100 to 3200 Hz + 2dB

## **RDI-1/DSP-1/AP-1 COR Input**

**Input Impedance:** 47K ohm pullup to + 5V.

**Polarity:** Active low or high, selectable.

Threshold: + 2.5V nominal.

Protection: up to  $\pm 100$  VDC

# **RDI-1/DSP-1/AP-1 PTT Output**

**Output Type:** Open drain, 47k ohm pullup to +5V.

**Polarity:** Active low or high, selectable.

Maximum Sink Current: 100 mA

Maximum Open Circuit Voltage: + 60 VDC

# **PSTN-1** Telephone Interface

**Telephone Line Levels:** Adjustable –24 dBm to 0 dBm in 3 dB steps.

**Hybrid Type:** DSP adaptive hybrid; -30 dB broadband balance.

Frequency Response: 100 Hz to 3200 Hz + 2 dB

**VOX Threshold:** Selectable –19, -16, -13, and –10 dB relative to telephone line level.

**VOX Hangtime:** Selectable 0.5, 1.0, 1.5, and 2.0 seconds.

#### **General/Environmental**

**Control Processor Module Serial Port:** RS-232 DCE connector (female DB0). Baud rates: 1200, 2400, 4800, or 9600, software selectable.

**Power Supply Front Panel (PSM-1A):** Power on/off Switch; AC on, DC on, +12 VDC, - 12 VDC LEDs.

**Handset/Speaker Fount Panel (HSP-2):** Speaker, Speaker on/off switch, 1/8 inch Headphone jack, Volume control, PTT LED, Fault LED, Handset jack, 3X4 Keypad.

Control Processor Front Panel (SPM-2): Master, Slave, and Fault LEDs.

Radio Interface Front Panel (RDI-1): Signal, COR, PTT, and Fault LEDs.

**Tel Interface Front Panel (PSTN-1):** Monitor, Ring, Connect, VOX, and Fault LEDs: L1 and L2 RJ11C Connectors.

High VHF 136-174 Quality Category D

Ingli viii 150-174 Quanty		
	STANDARD SPECIFICATI ON	BIDDER'S SPECIFICATI ON
GENERAL		
Number of Channels/Modes/Personalities	2	250
Operational Bandwidth/Maximum Frequency		
Separation, MHz	38	38
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	2.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5
Radiated Spurious & Harmonic Emission, dB	-60	-70
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	3
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75/-65
Spurious and Image Rejection, dB	-70	-70
Intermodulation, dB	-70	-70
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	5
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	-
Price FOB Destination freight prepaid & included		
in price		\$498.50
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		Kenwood USA
Prices are based on price list quoted above dated:		7/1/2003
Discount percentage represented by this price is		27%
		Less than 60
Delivery - expressed in days after Receipt of Order		Days
Warranty Period - in excess of that required by the		365 Days
specifications (in days)		00/
% Tax required		0%
Components added to the above model to meet		
required specifications:		

REQUIRED OPTIONS			
Part Number	Description	Price	
KSC-19	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$25.55	
INCLUDED	Position Rotary Channel/Mode Select Switch Option		
INCLUDED	Low Battery Alert Tone Option		
TK-280K3 / K4	Dual Tone Multi Frequency encoder and Key Pad Option	\$24.09	
KLH-75B / 76B	Leather Carrying Case Option	\$30.66	
KMC-25	External Speaker/Microphone Option	\$67.16	
OPTIONAL OPTIONS			
KVC-5	Vehicular Charger/Console Option	\$248.20	
INCLUDED	Flashing EEPROM		
INCLUDED	Provision for Field Software Upgrade		
NO	Secure Encryption Option		
KVC-8A	RF Power Amplifiers Option	\$646.05	
INCLUDED	Paging Decoder Option		
INCLUDED	Emergency Button/Switch Option		
INCLUDED	Programmable Button/Switch Option		
INCLUDED	Push-to-talk ID Transmission Option		
INCLUDED	Alphanumeric Display Option		

UHF 450-470 Quality Category C

	CIT IO IV Quanty Category C			
	STANDARD	BIDDER'S		
	SPECIFICATI	SPECIFICATI		
	ON	ON		
GENERAL				
Number of Channels/Modes/Personalities	14	250		
Operational Bandwidth/Maximum Frequency				
Separation, MHz	20	40		
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.5		
Channel Spacing, kHz	12.5 / 25	12.5 / 25		
TRANSMITTER				
RF Power Output, Watts	1/4 selectable	1/4 selectable		
	(Low/High)	(Low/High)		
Radiated Spurious & Harmonic Emission, dB	-60	-70		
FM Noise, dB	-40	-40		
Audio Distortion, % maximum	5	3		
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3		
RECEIVER				
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119		
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-70/-62		
Spurious and Image Rejection, dB	-70	-70		
Intermodulation, dB	-70	-70		
Speaker Audio Output, milliwatts	350	500		
Audio Distortion, % maximum	5	5		
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	-		

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Price FOB Destination freight prepaid & included		Φ400 <b>5</b> 0
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% Tax required		0%
Components added to the above model to meet		
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REQUIRED OPTIONS			
Part Number	Description	Price	
KSC-19	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$25.55	
INCLUDED	Position Rotary Channel/Mode Select Switch Option		
INCLUDED	Low Battery Alert Tone Option		
INCLUDED	Alphanumeric Display Option		
TK-380K4	Dual Tone Multi Frequency encoder and Key Pad Option	\$36.50	
KLH-75B / 76B	Leather Carrying Case Option	\$30.66	
KMC-25	External Speaker/Microphone Option	\$67.16	
OPTIONAL OPTIONS			
KVC-5	Vehicular Charger/Console Option	\$248.20	
INCLUDED	Flashing EEPROM		
INCLUDED	Provision for Field Software Upgrade		
NO	Secure Encryption Option		
KVC-8A	RF Power Amplifiers Option	\$646.05	
INCLUDED	Paging Decoder Option		
INCLUDED	Emergency Button/Switch Option		
INCLUDED	Programmable Button/Switch Option		
INCLUDED	Push-to-talk ID Transmission Option		



## \*\*\*\*\*REPORTS\*\*\*\*\*

The contractor will submit yearly reports to the State Purchasing Agent (Debbie Gundersen) showing quantities and dollar volume of purchases by each agency and political subdivision. This report will be due by 04/27 of each year.

## FINET COMMODITY CODE(S):

72574000000-TWO-WAY RADIO, PORTABLE, INCLUDING VEHICLE RADIO RELAY SYSTEMS

72578000000-TWO-WAY RADIO RECEIVERS, TRANSMITTERS, TRANSCEIVERS: MOBILE AND BASE STATION (AUDIO TRANSFER)
72582000000-TWO-WAY RADIO SUPPLIES, PARTS, AND ACCESSORIES